



Performance Data Sheet

AEA1410YXA

General Information

Model	AEA1410YXA	Refrigerant	R-134a
Test Condition	ASHRAE	Performance Test Voltage	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	Motor Type	RSIR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	309	290	279	266	240	193	113
	Watts	146	149	150	149	143	132	112
	Amps	2.57	2.64	2.66	2.64	2.59	2.53	2.48
	Lb/h	3.82	3.58	3.44	3.28	2.96	2.37	1.38
-35	Btu/h	488	452	428	405	374	323	244
	Watts	150	153	156	156	152	143	127
	Amps	2.52	2.61	2.63	2.62	2.58	2.53	2.48
	Lb/h	6.05	5.61	5.31	5.02	4.63	4.00	3.02
-30	Btu/h	661	610	573	541	504	451	373
	Watts	159	162	165	167	165	158	145
	Amps	2.53	2.63	2.66	2.66	2.63	2.59	2.55
	Lb/h	8.21	7.57	7.12	6.72	6.26	5.60	4.63
-25	Btu/h	832	766	718	678	635	581	504
	Watts	172	175	178	181	181	176	166
	Amps	2.59	2.69	2.74	2.75	2.73	2.70	2.67
	Lb/h	10.4	9.53	8.93	8.42	7.90	7.22	6.27
-20	Btu/h	1010	926	867	819	772	716	642
	Watts	187	190	194	198	200	198	190
	Amps	2.68	2.80	2.85	2.87	2.86	2.84	2.83
	Lb/h	12.5	11.5	10.8	10.2	9.60	8.91	7.98
-15	Btu/h	1190	1090	1020	968	917	861	790
	Watts	205	208	213	217	221	221	216
	Amps	2.79	2.92	2.99	3.02	3.02	3.01	3.01
	Lb/h	14.8	13.6	12.7	12.1	11.4	10.7	9.83
-10	Btu/h	1380	1270	1190	1130	1080	1020	952
	Watts	224	227	232	238	243	245	243
	Amps	2.92	3.06	3.14	3.18	3.19	3.20	3.21
	Lb/h	17.2	15.9	14.9	14.1	13.4	12.7	11.9
-5	Btu/h	1590	1470	1380	1310	1250	1200	1130
	Watts	244	247	252	259	265	270	270
	Amps	3.04	3.19	3.29	3.34	3.37	3.39	3.41
	Lb/h	19.8	18.3	17.2	16.3	15.6	14.9	14.1

0	Btu/h	1810	1680	1580	1510	1450	1400	1340
	Watts	264	266	272	280	288	294	297
	Amps	3.14	3.31	3.42	3.49	3.53	3.57	3.60
	Lb/h	22.7	21.0	19.8	18.9	18.1	17.5	16.7
5	Btu/h	2060	1920	1810	1730	1670	1620	1570
	Watts	283	285	292	300	309	318	323
	Amps	3.23	3.41	3.53	3.62	3.67	3.72	3.78
	Lb/h	25.8	24.0	22.7	21.7	21.0	20.3	19.6
10	Btu/h	2340	2180	2070	1980	1920	1870	1830
	Watts	301	303	309	319	329	339	347
	Amps	3.27	3.47	3.61	3.71	3.78	3.84	3.91
	Lb/h	29.3	27.4	26.0	24.9	24.2	23.5	22.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.306610E+03	5.547985E+02	-2.135807E+00	6.651287E+01
C2	9.018949E+01	8.326875E+00	-3.753108E-03	1.137300E+00
C3	-8.268734E+01	-9.050792E+00	1.285730E-01	-1.037317E+00
C4	3.621159E-01	-3.178855E-03	-6.336951E-04	4.833592E-03
C5	-8.040011E-01	-9.912497E-02	2.855949E-04	-1.007057E-02
C6	6.202143E-01	8.916240E-02	-9.912543E-04	7.780796E-03
C7	5.399389E-03	-9.675402E-04	-1.582250E-05	7.044903E-05
C8	1.202531E-03	-1.291730E-04	1.533094E-06	1.463411E-05
C9	3.342459E-03	5.546478E-04	2.622063E-08	4.175887E-05
C10	-1.658513E-03	-2.689434E-04	2.612336E-06	-2.080189E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature